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ABSTRACT

The newspaper is a familiar tool to many teachers. This book explores another use for the newspaper in the classroom. As an aid in the teaching and remediating of basic mathematics skills, the newspaper adds variety to classroom instruction. The suggested newspaper activities and teaching ideas presented here are specifically designed to reinforce the Minimum Student Performance Standards identified by the Florida Department of Education for grade eight. Activities included are: reading and writing numerals; rounding; putting numbers in order; fractions; operations of whole numbers and decimals; measurement; identifying shapes; estimation; real world, money, and measurement problems; and interpreting graphs, tables and maps. The corresponding skill number, needed materials, newspaper activities for skill reinforcement; and an activity sheet are provided in each activity. A list of resource materials is included. (YP)

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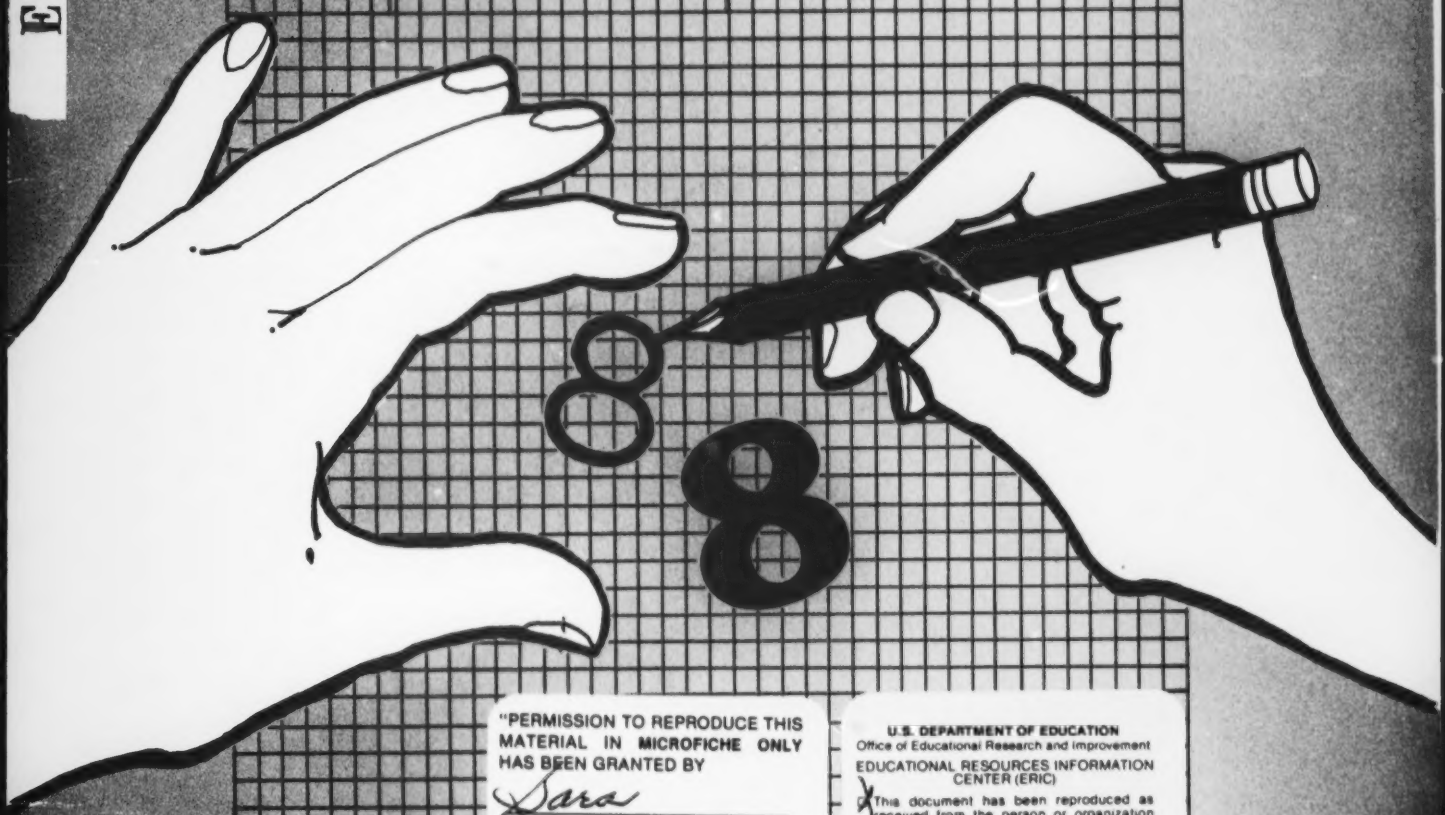
USING THE NEWSPAPER TO REINFORCE MATHEMATICS SKILLS



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***Minimum Student Performance Standards for Florida Schools Grade 8**

Florida Newspaper in Education Coordinators, Inc.

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USING THE NEWSPAPER TO REINFORCE

MATHEMATICS SKILLS

Minimum Student Performance Standards for Florida Schools
Grade 8

Consultants

Second Edition
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First Edition
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Published by
Palm Beach Newspapers Inc.
West Palm Beach, Florida

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Introduction

The newspaper is a familiar tool to many teachers. This book explores another use of the newspaper in the classroom. As an aid in the teaching and remediating of basic mathematics skills, the newspaper adds variety to classroom instruction. The suggested newspaper activities and teaching ideas presented here are specifically designed to reinforce the Minimum Student Performance Standards identified by the Florida Department of Education for grade eight.

With the growing concern about basic skills, Florida Newspaper In Education Coordinators, Inc. realizes the need for current, relevant teaching materials. We have published this book to provide educators with another resource to reinforce the minimum student performance standards required by the Florida State Department of Education.

We encourage teachers to reproduce the Student Activity Sheets for classroom use.

For further information on Newspaper In Education programs contact: **FNIEC, Inc., P.O. Box 1949-F, Jacksonville, Florida, 32231.**

Message to the Teacher

Many teachers have taught a unit on the use of the newspaper and its components. This book approaches the use of the newspaper from another view. Organized by state standards, the suggested activities directly address the mathematics skills through the use of the newspaper. Ideally, students' skill proficiency and familiarity with the newspaper are increased simultaneously.

For each math skill or set of skills, sample teaching ideas are given. Where needed the student activity sheet follows the skill sheet. Each activity sheet is coded in the upper right hand corner with the standard, skill and grade designation.

Some of the suggested activities require the student to answer questions while searching his newspaper. Others require the teacher to select various articles and advertisements for student use. Items needed for the activities are listed under the Materials Needed section of the skill sheet. An attempt was made to strike a balance between those activities for which the student works in the newspaper and those for which isolated articles and advertisements are used.

Grade 8
Minimum Performance Standard A
Skill #8

Standard A

The student will read and write numerals.

Skill #8

Read and write the numerals representing any whole number less than ten million.

Materials Needed

Newspapers
Scissors
Glue
Student activity sheet A-8, Grade 8

Newspaper Activities for Skill Reinforcement

1. Ask students to count the number of words in one column on the front page of the newspaper. Then, have them multiply the number of words in one column by the number of columns on the page. Multiplying the total number of words on the front page by the number of pages in the newspaper will help students grasp the concept of large numbers.

2. Have students look through the newspaper and clip five articles with numbers between ten thousand and ten million and explain what the number refers to, such as monies spent on project, population of a city, etc.

3. Have students complete activity sheet A-8, Grade 8 by clipping five classified ads for homes costing between ten thousand and ten million dollars and writing the price of each home beside the advertisement.

4. Have students select an article which contains 10 or more numbers and direct students to rewrite each number in words.

STUDENT ACTIVITY SHEET

Reading and Writing Large Whole Numbers

Directions:

Clip out five ads for homes. Beneath each ad write out the price of the house. Cut out additional ads and paste them on index cards. Write the price of the house on the back of the cards. When you are finished exchange your cards with a friend and do the prepared activity cards.

#1

MAITLAND, "THE OAKS" (D)
OPEN SUNDAY 1-5

780 DOMMERICH DRIVE. One of Maitland's finest residential areas. Magnificent oak shaded lot. Four bedrooms, 3½ baths. Fireplace in family room. Hydro spa off master bedroom. Pool & 44x12ft. covered patio are enclosed. Assumable 12½% mortgage. $269,000. Eula Curtis, REALTOR, 644-8710.

#2

#3

#4

#5

Standard A

The student will read and write numerals.

Skill #9

Read and write the fractions having denominators of 2, 3, 4, 5, 6, 8, 10, 20, 25, 50, or 100.

Materials Needed

Newspapers
Student activity sheet A-9, Grade 8

Newspaper Activities for Skill Reinforcement

1. Have students locate at least 5 fractions having denominators of 2, 3, 4, 6, 8, 10, 20, 25, 50 or 100 in the newspaper and note the page number on which they found the fraction and how the fraction was used, such as a recipe, sale ad, sewing pattern, stock exchange etc.

2. Distribute copies of student activity sheet A-9, Grade 8 and have students complete the activity. On the back of the sheet have students find a different recipe in the newspaper and name the fractions.

3. Direct students to find several sale ads using fractions and have them write out the name of each fraction.

4. Using the stock exchange listings, have students find fractions using each of the following denominators; 2, 3, 4, 5, 6, and 8, and make a list of the company's name and the fraction. As an extention activity, you may wish to have students keep track of the companies' record for a 3 or 4 week period and note how the fraction changes.

STUDENT ACTIVITY SHEET

Read and Write Fractions

Directions:

In the recipe below, list all the different fractions and write them out in words.

Example: 3½ Three and one half

Bluefish in White Wine

1 lb boneless bluefish fillets
1 lemon
½ cup water
¼ cup dry white wine
2 tbsp white vinegar
1 tsp sugar
1 small onion, cut in half and thinly sliced, about 1 cup
1 bay leaf
3 whole cloves
⅛ tsp crushed hot red pepper flakes
12 peppercorns
1 sprig fresh thyme, or ½ tsp dried

Preheat the oven to 400F.

If the fillets are small, arrange them skin-side down in one layer in a shallow baking dish. If the fillets are large, it may be necessary to cut them into two or three pieces before putting them in the dish.

Cut a few lengthwise ridges down the side of the lemon using a lemon peeler or knife. This is only for a decorative effect. Trim off the ends of the lemon. Cut the lemon into 8 or 10 thin slices and remove the seeds. Arrange the slices over the fish.

Combine the water, wine, vinegar, sugar, onion, bay leaf, cloves, hot red pepper, pepper corns and thyme in a saucepan. Bring to the boil and simmer for 10 minutes.

Pour the sauce over the fish and place the dish on the stove. Bring just to the boil. Place in the oven and bake for 15 minutes.

Remove the fish and let stand in the marinade until cool. Chill if desired. Serve cold.

Yield: 4 servings.

Calories, 180; sodium, 90 mgs; fat, 3.1 g.; cholesterol, 80 mgs.

Numbers	Words
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Your Example:

Standard A

The student will read and write numerals.

Skill #10

Read and write a mixed decimal through hundredths; with a whole number component less than 100.

Materials Needed

Newspapers
Student activity sheet A-10, Grade 8
Index cards
Scissors
Glue
Blank pieces of paper
Clear tape

Newspaper Activities for Skill Reinforcement

1. Using the entire newspaper, have students find and make a list of seven rates of interest, advertised by financial institutions, for a savings account. Then, ask them to find four rates of interest for Certificates of Deposit in the amount of $10,000 for 6 months.

2. Using the New York Stock Exchange listings in the newspaper, have students make a list of 10 stock listings and the bid price for each listing.

3. Distribute copies of student activity sheet A-10, Grade 8 and have students make the "push pull" game as decribed on the activity sheet.

STUDENT ACTIVITY SHEET

Read and Write Mixed Decimals

Directions:

1. You will need two 5 X 7 index cards, a pair of scissors (preferably with pointed ends), paste, a newspaper, a strip of paper 4" by 9", and clear tape.

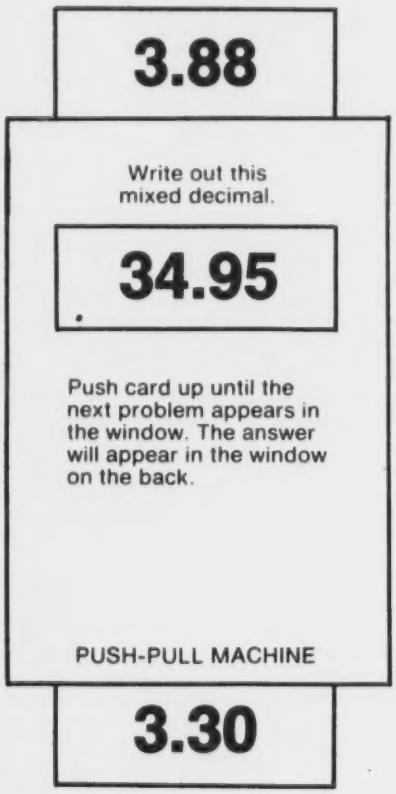
2. Tape the two index cards together with lined sides facing inside. Tape along the long sides. About one inch from the top of the attached cards cut out a rectangular window as shown in the diagram below.

3. Find ten mixed decimals in the newspaper and paste them on the long strip of paper.

4. Run the paper strip through the middle of the index cards until one of the decimals appears in the cut out window. Turn the cards over and in the back window write the corresponding words for the decimal number that appears in the front window. Continue doing this for all ten decimals.

5. Write the directions on the front of the index cards (see figure below).

6. When finished, play a game with a friend and exchange and play your friend's game.


3.88
Write out this mixed decimal.
34.95
Push card up until the next problem appears in the window. The answer will appear in the window on the back.
PUSH-PULL MACHINE
3.30

FRONT

3.88
4.90
34.95
8.98
2.40
2.99
9.96
3.30

BACK

THREE & EIGHTY-EIGHT HUNDREDTHS
FOUR & NINE TENTHS
THIRTY FOUR & NINETY FIVE HUNDREDTHS
EIGHT & NINETY EIGHT HUNDREDTHS
TWO & FOUR TENTHS
TWO & NINETY NINE HUNDREDTHS
NINE & NINETY SIX HUNDREDTHS
THREE & THREE TENTHS

Standard A

The student will read and write numerals.

Skill #11

Read and write money values through $1,000.

Materials Needed

Newspapers
Student activity sheet A-11, Grade 8
Scissors
Glue
Construction paper

Newspaper Activities for Skill Reinforcement

1. Using the classified section of the newspaper, ask students to find 10 articles they would like to buy to redecorate their room. No article may cost more than $1,000. Keep a list of these items by name and price.

2. Have students cut out pictures in the newspaper of items costing under $1,000 and paste them on construction paper with the prices written out in numerals under the picture. When the class is finished with the assignment, make a bulletin board display using these items. Whenever a few minutes remain at the end of a class period, have students read out the prices orally (or write them on the blackboard) as the teacher randomly points to them.

3. Distribute copies of the student activity sheet and have students construct and then play the described concentration game.

STUDENT ACTIVITY SHEET

Reading and Writing Money Values.

Directions:

Below are the parts for a sample game of concentration. To play, make up an 8 inch by 8 inch playing board from construction paper with vertical and horizontal lines spaced 2 inches apart. This will make a 4 by 4 grid. Then cut out all of the 16 parts below, turn them over and mix them up. Randomly place them on the playing board you created. In turn, you and your opponent will try to match the money value in numerals with the same money value spelled out in words. When you finish playing several games, make up your own game by cutting out money values from the newspaper.

SPECIAL VALUE $149.97	SPECIAL VALUE $149.96	SPECIAL VALUE $239.97	SPECIAL VALUE $259.97
one hundred forty nine dollars & ninety seven cents	one hundred forty nine dollars & ninety six cents	two hundred thirty nine dollars & ninety seven cents	two hundred fifty nine dollars & ninety seven cents
SPECIAL VALUE $169.97	SPECIAL VALUE $169.88	SPECIAL VALUE $219.88	SPECIAL VALUE $199.86
one hundred sixty nine dollars & ninety seven cents	one hundred sixty nine dollars & eighty eight cents	two hundred nineteen dollars & eighty eight cents	one hundred ninety nine dollars & eighty six cents

Grade 8
Minimum Performance Standard A
Skill #12

Standard A

The student will read and write numerals.

Skill #12

Read and write word names for 3-digit whole numbers.

Materials Needed

Newspapers
Student activity sheet A-12, Grade 8
Student activity sheet A-12a, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Ask students to look through the newspaper and locate advertisements for the following items. On a separate piece of paper, have students write the name of each item, the price of the item in numerals and the price of the item in words.

   19" color television
   washing machine
   refrigerator
   VCR
   4 new tires
   used motorcycle

   Note: All prices must be 3-digit whole numbers; therefore, any cents should be rounded to the appropriate whole number.

2. Distribute copies of student activity sheet A-12, Grade 8 and have students clip out nine ads from the newspaper and write the value of each item, in words, beneath the item.

3. Have students locate 10 different items, in the newspaper, priced between $100 and $999 that they would like to buy. Then, have students make a list of the items, prices and word names for each price.

4. On student activity sheet A-12a, Grade 8 have students read the illustrated ad, list each number in the ad and then write out the number in words. After completing this portion of the activity, ask students to find five more ads, underline the numbers and do the same activity.

STUDENT ACTIVITY SHEET

Read and Write Word Names

Directions:

Clip out nine ads from the newspaper. Beneath each ad write the value of each item in words.

ELECTRIC RANGE WITH
AUTO OVEN
REG. 439.99

$399

Continuous cleaning oven
can be preset to turn on,
cook, turn off. Removable
black glass oven door.
#4340

#1 **Three hundred ninety-nine** #2 _____

#3 _____ #4 _____

#5 _____ #6 _____ #7 _____

#8 _____ #9 _____ #10 _____

STUDENT ACTIVITY SHEET

Reading and Writing Numbers

Directions:

In the ad that follows there are quite a few numbers. List each number and beside it write out the number in words. Clip out five more ads. Underline the numbers and do the same activity.

Example:

HIGHWAY 419, WINTER SPGS - 3 bdrm 2 bath, 2.23 landscaped acres 3000 sq.ft. wine cellar, oak floors Could be rezoned for commercial $120,000 Owner financing
SUN BELT INTERNATIONALE
Realty Corp. REALTOR

Number	Words
419	four hundred nineteen

Grade 8
Minimum Performance Standard B
Skill #14, 15

Standard B

The student will round numbers.

Skill #14

Round a whole number less than 10,000 to any designated place.

Skill #15

Round a number less than 10 with no more than two decimal places to the nearest whole number.

Materials Needed

Newspapers
Student activity sheet B-14, Grade 8
Student activity sheet B-15, Grade 8

Newspaper Activities for Skill Reinforcement

1. Using the classified ads in the newspaper and copies of student activity sheet B-15, Grade 8, have students find the cost of seven different used cars (be sure that the numbers selected are whole numbers). Then, have them round each of the prices to the nearest thousands, hundreds and tens.

2. Group students into pairs and distribute copies of student activity sheet B-14, Grade 8 to each group. Have each group construct and play the concentration game as described on the activity sheet.

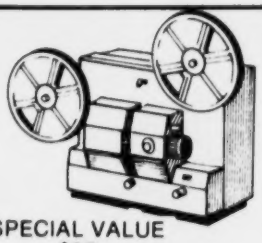
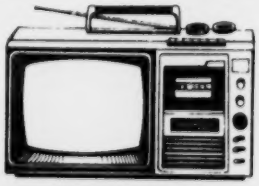
3. Assist students in finding the Standard and Poors index in the business section of the newspaper. Ask them to round the change (chg.) to the nearest whole number for each of the listed items.

STUDENT ACTIVITY SHEET

Rounding Whole Numbers

Directions:

Below are the parts for a sample game of Concentration. To play, make an 8" by 8" playing board from construction paper with vertical and horizontal lines spaced two inches apart. This will make a 4 by 4 grid. Then cut out all of the 16 parts below, turn them over and mix them up. Randomly place them face down on the playing board. You and your opponent will try to match the original price with the rounded price. When you have finished playing several games, make your own game by cutting out items with whole numbers under $10,000.

 15' RUNABOUT **ONLY $4359** 10% DOWN TENS	 SPECIAL VALUE $97 HUNDREDS	**$4988** **1980 SPIRIT** HUNDREDS	 **SALE PRICE** **$499** TENS
4360	100	5000	500
 YOU PAY **$5670** THOUSANDS	 **SPECIAL VALUE** **$144** TENS	**HATCHBACK** **$7088** HUNDREDS	 YOU PAY... **$6882** THOUSANDS
6000	140	7100	7000

STUDENT ACTIVITY SHEET

Rounding Whole Numbers

Directions:

Clip out ads for cars and their prices. Paste them below. Round each of the prices to the places indicated.

#1

$9995

#2

#3

#4

#5

thousands	hundreds	tens

Grade 8
Minimum Performance Standard C
Skill #23

Standard C

The student will put numbers in order.

Skill #23

Put in order three whole numbers less than 10,000.

Materials Needed

Newspapers
Student activity sheet C-23, Grade 8

Newspaper Activities for Skill Reinforcement

1. Have students find 15 items in the newspaper that cost less than $10,000. Divide all of the items into five sets of three items. In each set list the numbers from smallest to largest.

2. Review the stockmarket listings with your students prior to passing out copies of student activity sheet C-23, Grade 8. Pay particular attention to the abbreviations used for each of the columns. Students will be working with specific companies and their stock's sales in hundreds listings (Sales Hds.).

   Note: Activity 2 lends itself to a field trip to a local brokerage house. It also provides a real-life application for the need to have "good" mathematics skills. If a field trip is taken, have the students learn the real names for the company abbreviations used in the stock market listings and let them follow a company's stock price for a period of at least six weeks.

3. Direct students to cut out ten different items of the same type (cars, boats, motorcycles, etc.) with their prices attached. Put the items on index cards and put the cards in order from samllest to largest. Students can exchange their activity cards with other members of the class for further drill.

STUDENT ACTIVITY SHEET

Whole Number Ordering

Directions:

Use the New York Stock Exchange listings to find each of the following stocks. Record their Sales hds. number. Then, for each set of stocks rank in order from smallest to largest based on their sales per hundred.

Example:

Set 1	Sales Hds.	Smallest to Largest
Allen G. Apache Interco	2174 1058 1265	Apache Interco Allen G.

Set 2	Sales Hds.	Smallest to Largest
Fed Exp. Centel Witco		
Set 3	**Sales Hds.**	**Smallest to Largest**
Chynon Stone C. Pay Csh		
Set 4	**Sales Hds.**	**Smallest to Largest**
Zurnin Merlyn Nwpark		
Set 5	**Sales Hds.**	**Smallest to Largest**
Kysoz Untech Gensco		
Set 6	**Sales Hds.**	**Smallest to Largest**
Disney Quak Ot Mobil		
Set 7	**Sales Hds.**	**Smallest to Largest**
Ty Ler Vee co Sea Land		

Grade 8
Minimum Performance Standard D
Skill #28

Standard D

The student will determine equivalent forms of fractions, decimals and percents.

Skill #28

Identify a fraction that is equivalent to a given fraction having a denominator of 2, 3, 4, 5, 6, 8, 10, 20, 25, 50 or 100.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Using the business section of the newspaper, have students locate the New York Stock Exchange listings and find five stocks for each of the following; a change of ⅛, a change of ¼, a change of ½, a change of ⅜, a change of ⅞ a change of ¾.

2. Using the American Stock Exchange listings, have students find 10 stocks that had a change for each fraction stated: 1½, 2½, 1¼, 3¼.

3. Using either stock exchange listing, have students find 10 different companies whose closing price is a mixed number. List each stock by name and closing price and then have students change each closing price to an improper fraction, i.e. 22-1/2 = 45/2.

4. Cut out a sewing pattern from the newspaper and have students determine all common denominators. Instruct students to change all the fractions to equivalent fractions with the least common denominator. Explain to the students that this process is necessary before fractions (with unlike denominators) can be added or subtracted. Similar activities can be done using recipes, a collection of interest rates or the stock market reports from the newspaper.

Grade 8
Minimum Performance Standard D
Skill #30, 31

Standard D

The student will determine equivalent forms of fractions, decimals and percents.

Skill #30

State in decimal form the equivalent of a whole number percent less than 100%.

Skill #31

Identify a decimal or percent that is equivalent to a proper fraction having a denominator or 10 or 100.

Materials Needed

Newspapers
Student activity sheet D-30, Grade 8
Student activity sheet D-31, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Have students complete student activity sheet D-30, Grade 8 by using the advertisements in the newspaper to locate 10 different advertised percents less than 100% and then find the equivalents for the percents in both decimal and fraction form, i.e. 18% = 18/100.

2. Student activity sheet D-31, Grade 8 asks students to find a collection of six whole numbers percents in the newspaper and paste them onto a TEACH-TAC-TOE board. The game is played similarly to Tic-Tac-Toe. However, to remain on a particular space the student must change the two percents that correspond to the space into equivalent decimal and fraction forms.

STUDENT ACTIVITY SHEET

Equivalent Forms of Fractions, Decimals & Percents

Directions:

Clip percentages out of the newspaper and paste below. Name equivalent fractions and decimals for the percents at the left. When finished cut out other percents from ads in the newspaper and make up another work sheet similar to the one below.

PERCENTS	DECIMALS	FRACTIONS
49%	.49	49/100
60%		
26%		
38%		
43%		
65%		
37%		

STUDENT ACTIVITY SHEET

Equivalent Forms of Fractions, Decimals and Percents

Directions:

Below are four game boards for percentage TEACH-TAC-TOE. The game is played similarly to Tic-Tac-Toe, except to remain on a particular space you must rename the percentages straight above and directly to the left of the space you wish to occupy. Rename each percentage as an equivalent decimal and fraction. The player getting three in a row wins, just as in tic-tac-toe. After you and a fellow student have finished playing on each fixed grid, you are to cut out other percentages and make two additional games.

%	44%	46%	41%
53%			
50%			
43%			

%			

TEACH-TAC-TOE

%			

%	30%	17%	33%
26%			
35%			
31%			

Grade 8
Minimum Performance Standard E
Skill #43

Standard E

The student will add whole numbers

Skill #43

Add three 4-digit numbers.

Materials Needed

Newspapers
Student acitvity sheet E-43, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Have students find five car dealer ads in the newspaper. From these ads have them add three of the most expensive, three of the least expensive, three cars with medium prices, and the three cars the students like best. **Note:** Prices selected should be 4-digit numbers.

2. Ask students to clip ads from the newspaper for cars, boats and trucks and use these ads to complete student activity sheet E-43, Grade 8.

3. Make up activity cards with 5 items for sale in the newspaper, having 4-digit whole number amounts. Write ten problems relating to the addition of any three items. Do not use a number more than once in a problem.

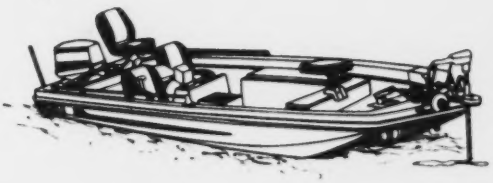
STUDENT ACTIVITY SHEET

Adding Whole Numbers

Directions:

Clip out ads for cars, boats or trucks and paste them under B, C, D, and E. Be sure the ads have prices. Find the sum of the combinations below by substituting the price of the item for the corresponding letter.

A.



New 1980 Aluminum Bowrider by Sylvan. 45HP, outboard & trailer.

B.

ALUMINUM BOWRIDER
by Sylvan
SPECIALLY PRICED
$4,988

C.

D.

E.

SHOW ALL WORK:

1. A+B+C= _____
2. A+B+D= _____
3. A+B+E= _____
4. B+C+D= _____
5. B+C+E= _____
6. A+C+D= _____
7. A+C+E= _____
8. A+D+E= _____
9. B+D+E= _____
10. C+D+E= _____

Grade 8
Minimum Performance Standard F
Skill #51

Standard F

The student will subtract whole numbers.

Skill #51

Subtract two 5-digit numbers.

Materials Needed

Newspapers
Student activity sheet F-51, Grade 8

Newspaper Activities for Skill Reinforcement

1. Using the classified section of the newspaper, find the Homes for Sale listings and record the prices for five homes less than $99,900. Then, find the difference between each.

2. Using the Help Wanted section of the classified ads, record 5 pairs of different jobs paying between $10,000 and $99,000. Find the difference between each pair you find.

3. Have students complete student activity sheet F-51, Grade 8 by clipping ads for houses that include prices and using the information in the ads to complete the calculations at the bottom of the page.

STUDENT ACTIVITY SHEET

Subtracting Whole Numbers

Directions:

Clip out ads for houses that include the prices. Paste them next to B,C,D, and E. Find the differences in the house prices by substituting the correct amount for the variables (letters) listed below.

A.

COUNTRY LIVING — in the city on big Pottsburg. Lovely 3BR, 1½BA, liv. din & scr'd patio $44,900 775-0786 or 721-8525

B.

C.

D.

E.

SHOW ALL WORK IN THE SPACE BELOW.

1. A-B= _____
2. A-C= _____
3. A-D= _____
4. A-E= _____
5. B-C= _____
6. B-D= _____
7. B-E= _____
8. C-D= _____
9. C-E= _____
10. D-E= _____

Grade 8
Minimum Performance Standard G
Skill #55

Standard G

The student will multiply whole numbers.

Skill #55

Multiply a 2-digit number and a 3-digit number.

Materials Needed

Newspapers
Student activity sheet G-55, Grade 8
Scissors
Glue
Markers

Newspaper Activities for Skill Reinforcement

1. Have students find ads in the classified section of the newspaper for five cars with the miles per gallon (MPG) listed. Assume each gas tank holds twelve gallons of gasoline and compute the distance each car can travel on a tank of gas. Then, have students repeat the activity for a gas tank that holds 23 gallons.

2. Create a TEACH-TAC-TOE game using student activity sheet G-55, Grade 8 and three 2-digit numbers and three 3-digit numbers found in the advertisements in the newspaper.

STUDENT ACTIVITY SHEET

Multiplying Whole Numbers

Directions:

Below are two game boards for multiplication TEACH-TAC-TOE. The game is played similarly to Tic-Tac-Toe, except to remain on a particular space you must find the product of the numbers straight above and directly to the left of the space you wish to occupy. If the correct answer is given, and agreed upon by both players, the marker may remain. If the wrong answer is given, the player missing the question loses his turn. Play continues until someone gets three in a row and wins. A tie is called if no one gets three in a row. After playing on the fixed grid below, you are to cut out other numbers from the newspaper and make up another game in the blank grid.

×	339	259	479
12			
66			
69			

×			

Grade 8
Minimum Performance Standard H
Skill #60, 61

Standard H

The student will divide whole numbers

Skill #60

Divide a 5-digit number by a 1-digit number including multiples of 10.

Skill #61

Divide a 3-digit number by a 2-digit number including multiples of 10.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Ask students to find five boats, eight new cars and seven used cars in the classified section of the newspaper. Have students find the average price for each type of item.

2. Using the real estate listings in the classified section of the newspaper, have students find the cost of a 3 bedroom, 2 bath house for under $99,000. Find the cost per person if; 4 people were to live in the house, 6 people were to live in the house, and if 4 brothers, 2 sisters and a mother and father were going to live in the house.

3. Using the business section of the newspaper, have students locate the summary of daily stock market activity and the Dow Jones Advances and Declines. Have students record these listings for each day of the week or for a two week period and then find the average change during the period.

4. Using the Help Wanted section of the newspaper, have students find 5 jobs that list a weekly salary and then ask them to find the hourly wage for each job given a 40 hour work week.

Grade 8
Minimum Performance Standard I
Skill #65

Standard I

The student will add, subtract, and multiply fractions.

Skill #65

Add two proper fractions having unlike denominators of 2, 3, 4, 5, 6, 8, or 10.

Materials Needed

Newspapers
Student activity sheet I-65, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Calculate the total amount of space for photographs in the first section of the newspaper by measuring the length and width (including fractional parts) and determine the total amount by adding the widths of the pictures on each page as well as the lengths. Do the same for each section of the paper.

2. Select four different columnists that appear daily in the newspaper. Find the area of each of their columns for a period of four weeks. Record the change in area, length and width, for this period of time.

3. Use the business section of the newspaper, to complete student activity sheet I-65, Grade 8.

STUDENT ACTIVITY SHEET

Adding Fractions

Directions:

Use the stock exchange listing below, and find the sum of the following:

1. The highs of ADT and ATT. _____
2. The lows of AAR and ADT. _____
3. The changes of ASA and Atlas C. _____
4. The closings (last) of ACF and APL _____
5. The highs of Acme C and ABrd. _____

Clip out a stock column of your own and paste below. Now make up ten more problems of your own and solve.

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

EXAMPLE

NY STOCK

SHOW ALL WORK IN THE SPACE BELOW.

			Sales				Net
		P-E	(hds)	High	Low	Last	Chg.
AAR	.44	7	5	11	11	11	– ⅛
ACF	2.76	9	143	43½	43	43	– ⅝
AMF	1.24	12	2511	23⅛	22½	22⅝	– ⅛
AM Int		—	178	13¼	12⅝	13¼	+ ⅜
APL		—	22	6⅜	6¼	6¼	
ARA	1.94	6	79	33¾	32	32	
ASA	5a	—	533	65	64	64⅝	+ ⅜
AVX	.32	22	173	32½	31¼	31⅜	– 1⅛
AtlLb s	.72	16	1456	29¼	28½	28⅜	
AcmeC	1.40	7	12	25¾	25½	25⅝	+ ⅛
AdmDg	.84	7	28	5⅜	5⅜	5⅜	
AdaEx	1.88e	—	52	14½	14	14⅛	+ ⅛
AdmAir	.30e	6	31	6¼	6¼	6¼	– ⅛
AMD s		14	2111	23¼	22⅛	22⅞	
AetnLf	2.32	6	1069	39	37¾	38¾	+ ⅜
Ahmns	1.20	18	48	17⅜	17⅜	17⅜	– ⅛
Aileen		17	4	3¼	3¼	3¼	
AirPrd	.80	9	242	39	38¼	38½	
ArtbFrt	.60	18	30	13½	13⅛	13⅛	– ⅛
Alzona	.80	74	1020	14½	13⅝	14	
AlMas n		—	53	21¼	21¼	21¼	
ATT	5.40	7	4533	55¾	54⅜	55¼	+ ⅛
AWatr	1.04	4	2	12⅜	12⅜	12⅜	
AWat pf	1.43	—	1590	15½	15½	15½	
AmAg wi		—	6	7¼	7¼	7¼	
AmAir		—	2787	16⅜	15¼	16⅛	
AAir wt		—	642	6	5⅜	5⅜	– ⅛
AAir pf	2.18	—	19	14½	13⅜	14⅛	+ ⅛
ABakr	.35b	13	59	14¼	14	14	– ⅛
ABrnd s	2.25	6	194	41¼	40⅜	41¼	+ ⅛
ABrd pf	2.75	—	2	21½	21½	21½	
ABdcst	1.60	6	506	29⅜	29	29⅛	– ⅛
ABldM	.44	8	21	28½	28	28⅛	+ ⅛
ABstPd	.48	8	37	16⅛	15⅜	15⅜	– ⅛
AmCan	2.90	10	245	48⅛	48	48⅛	+ ⅜
ACntry	.30e	7	25	8⅛	8⅛	8⅛	+ ⅛
ACyan	1.60	9	1528	31⅜	31⅛	31⅜	– ⅛
ADT	1.40	11	165	34⅜	33⅜	34½	+ ½
AEIPw	2.36	7	268	17	16⅜	16⅞	+ ⅛
AmExp	2	9	3805	46⅛	45⅜	46	+ ⅛
AFarml	.60	7	155	9	9	9	
AGasC		5	34	14⅜	14⅛	14⅜	
Augat s		21	61	29⅜	29¼	29⅛	– ⅜
AutDt s	.64	19	376	37	35⅜	36⅜	+ 1⅛
AvcoCp	1.20	6	774	29½	28⅛	29	
Avco pf	3.50	—	1	48⅜	48⅜	48⅜	+ 1⅜
Avery	.80	10	197	25⅜	24⅜	25	+ ⅜
Avnet	1b	17	471	49⅜	48⅛	48⅜	– ⅛
Avon s		9	3095	38½	37⅜	38	+ ⅛
Avdn		12	131	38¾	37¼	37¼	– ½

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Grade 8
Minimum Performance Standard I
Skill #66, 67, 68

Standard I

The student will add, subtract, and multiply fractions.

Skill #66

Subtract two proper fractions having unlike denominators of 2, 3, 4, 5, 6, 8, or 10.

Skill #67

Multiply two proper fractions.

Skill #68

Multiply a proper fraction with denominator 2, 3, 4, 5 ,6, 8, or 10 by a whole number such that the product is a whole number.

Materials Needed

Newspapers
Student activity sheet I-67, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Have students clip several recipes from the food section of the newspaper, then have the students double, triple and/or quadruple the recipes. As an extension of this activity, ask the students to reduce the recipe down to serve one-half, one-fourth, and/or one-third of the number indicated in the original recipe.

2. Find the amounts needed for all ingredients when students use student activity sheet I-67, Grade 8 to reduce a recipe.

3. Using the stock market listings in the newspaper, have the students select 10 stocks from the New York Stock Exchange listings and find the amount of change for each stock, then have them multiply this change by 5 to determine what the change would be for a week if the rate of change were constant. **Note:** You may want to have the students follow their stocks to see the actual change.

4. Now, have students repeat activity 3 using 10 stocks from the American Stock Exchange listings.

STUDENT ACTIVITY SHEET

Multiplying Fractions

Directions:

Clip out a recipe that you would like to try. Paste below. Using the recipe, do the following:

1. Cut the recipe down to serve one-half of the number of people originally designated. Give (a) the amounts needed of each ingredient and (b) the number of persons this will now serve.

a. _____ b. _____

_____

_____

_____

2. Find (a) one-fourth of the recipe ingredients and (b) the number of persons this will now serve.

a. _____ b. _____

_____

_____

_____

SAMPLE RECIPE

3. Do the same for one-third of the recipe.

a. _____ b. _____

_____

_____

_____

4. Now take the recipe and double it.

a. _____ b. _____

_____

_____

_____

5. Triple the recipe.

a. _____ b. _____

_____

_____

_____

Grade 8
Minimum Performance Standard J
Skill #73, 74

Standard J

The student will add and subtract decimals.

Skill #73

Add three numbers, each having no more than two decimal places.

Skill #74

Subtract two numbers each having no more than two decimal places.

Materials Needed

Newspapers
Student activity sheet J-73, 74, Grade 8

Newspaper Activities for Skill Reinforcement

1. Using the advertisements in the newspaper, have students find the various savings account interest (expressed in decimal form) offered by six local financial institutions. Ask students to rank order the interest rates from highest to lowest and then add the three highest and three lowest interest rates.

2. In the business section of the newspaper, ask students to locate the Dow Jones Industrial Average summary and the Standard and Poors 500 Index and have them find the total for the Open, High and Low in each row. Then, ask students to subtract the High and Low in each listing.

3. Use the tire ads for drill in adding decimal numbers. Direct students to determine the price of four new tires for each size advertised.

4. Ask students to find the most and least expensive items per column of the classified ads, then, find the difference between the two items.

STUDENT ACTIVITY SHEET

Adding Decimal Numbers

Directions:

Find a tire ad that includes prices and paste below. Determine the price of four new tires for each size tire in the ad. Include the Federal Excise Tax (FET) on each purchase.

ANSWERS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

SHOW ALL WORK IN THE SPACE BELOW

Grade 8
Minimum Performance Standard K
Skill #75

Standard K

The student will multiply and divide decimals.

Skill #75

Multiply a whole number and a number having no more than two decimal places.

Materials Needed

Newspapers
Student activity sheet K-75, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Ask students to find three items in the newspaper and use the information in these ads to complete student activity sheet K-75, Grade 8.

2. Using the office equipment section of the classified ads, have students determine the cost of furnishing a business firm's five new sales offices. Determine the cost if each has a desk, chair and filing cabinet.

3. Direct students to determine the cost of costuming a choral/dance group with similar clothes, using clothing ads from the newspaper. There are sixteen girls and seventeen boys in the group. Give the price for 1 girl's costume and 1 boy's costume; then the price for all the girls' costumes and all the boys' costumes; then give the price for costumes for the total group.

STUDENT ACTIVITY SHEET

Multiplying and Dividing Decimals

Directions:

Clip out three ads that include prices and paste below. Find the prices of a half-dozen, a dozen, and a dozen-and-a-half of each of the following items.

	HALF-DOZEN	DOZEN	DOZEN & ONE-HALF
OIL OF OLAY® **2.79** 4 oz. bottle. Keeps skin moist.			

Grade 8
Minimum Performance Standard K
Skill #76, 77

Standard K

The student will multiply and divide decimals

Skill #76

Multiply two decimal fractions, both named in tenths or in hundredths.

Skill #77

Divide a decimal named in tenths or hundredths by a 2-digit whole number, such that the quotient is a number named in hundredths with remainder zero.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Have students calculate the taxes on any ten items found in the newspaper that cost between between $100 and $1,000. The items selected should not be in even dollar amounts and you will probably have to tell the place where each additional penny of tax is added.

2. Locate ten items for sale in multiples. Have students find the single cost for each item and determine the unit price. (**Example**: 10 lbs. of potatoes = $1.98 therefore 1 lb. costs 19.8¢)

Grade 8
Minimum Performance Standard M
Skill #91

Standard M

The student will measure time, temperature, distance, capacity and mass/weight.

Skill #91

Determine temperature using Fahrenheit and Celsius thermometers.

Materials Needed

Model of a Fahrenheit thermometer
Model of a Celsius thermometer
Newspapers

Newspaper Activities for Skill Reinforcement

1. Have each student construct a chart with Fahrenheit and Celsius scales. Then, for a period of six weeks, have them record the temperature of ten major cities listed in the weather section. Approximate the temperature in Celsius by using the formula given below. **Note:** Canadian cities are usually listed with a Celsius temperature reading.

   *Formula: (F° — 32) ÷ 1.8 = Celsius

Standard N

The student will identify geometric figures and shapes.

Skill #99

Identify solids, cube, cylinder, cone and sphere.

Skill #100

Identify an angle.

Materials Needed

Newspapers
Student activity sheet N-99, Grade 8
Scissors
Glue

Newspaper Activities for Skill Reinforcement

1. Have students complete student activity sheet N-99, Grade 8 by locating pictures in the newspaper for ech shape whose primary shape is one of the following; cube, cylinder, cone, sphere.

2. Locate six examples of an angle used in the display advertisements in the newspaper. Have the students note the page number and the name of the advertisements where they found their angles.

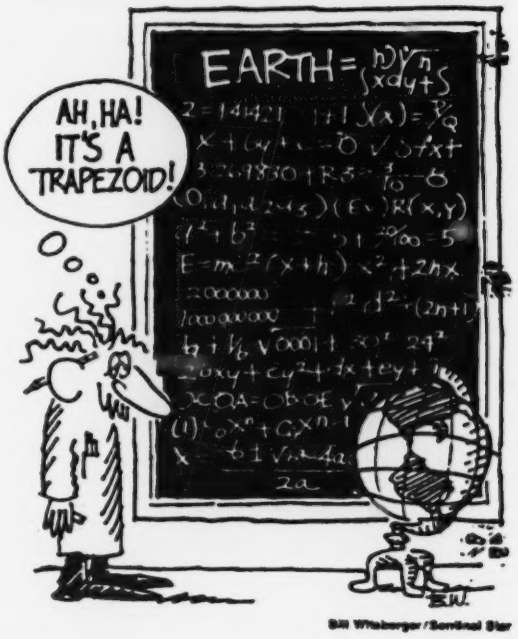
STUDENT ACTIVITY SHEET

Identifying Geometric Figures

Directions:

Go through the newspaper and find examples of geometric figures. Paste the items that illustrate each figure in the space provided below.

Look at the cartoon at the right. What do you think it means? Is the earth a trapezoid? What does a trapezoid really look like? In which category below does the earth really belong? Write your answers here.



Bill Whitbeyer / Sentinel Star

CUBE	CYLINDER
CONE	SPHERE

46

Grade 8
Minimum Performance Standard P
Skill #103, 104

Standard P

The student will estimate solutions by rounding.

Skill #103

Estimate, by first rounding each number to the nearest ten, hundred, or thousand, the solution to real-world addition problem involving up to 4-digit numbers.

Skill #104

Estimate by first rounding each number to the nearest ten, hundred, or thousand, the solution to a real-world subtraction problem involving up to 4-digit numbers.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Using the advertisements in the newspaper, have students locate the price of nine different compact cars priced less than $10,000. Group the prices in sets of three. Round each of the prices in Set 1 to the nearest ten and then estimate the total price for the three cars. Round the prices in Set 2 to the nearest hundred and estimate the answer for the three cars. Then, in Set 3, round to the nearest thousand and estimate the price for these three.

2. Using the rounded prices from the above activity, have students determine the difference between the highest priced set and the lowest priced set. This activity can be extended by using any sets of items from the newspaper.

Grade 8
Minimum Performance Standard Q
Skill #113, 114

Standard Q

The student will solve real-world problems involving whole numbers.

Skill #113

Solve real-world problems involving addition or subtraction of 4-digit numbers.

Skill #114

Solve real-world problems involving multiplication of a 2-digit number and a 3-digit number.

Materials Needed

Newspapers
Student activity sheet Q-113, Grade 8

Newspaper Activities for Skill Reinforcement

1. Using the food section of the newspaper, have students list the number of coupons available which offer extra stamps with the purchase. Find the total number of stamps you will receive if you use all of the coupons.

2. Activity sheets can be made of multiplication problems referring to ads cut from the newspaper concerning the purchasing of multiple items containing 2- or 3-digit prices. Have students first estimate the answer and then actually solve the problem.

3. Have students use student activity sheet Q-113, Grade 8 to solve each of the listed problems.

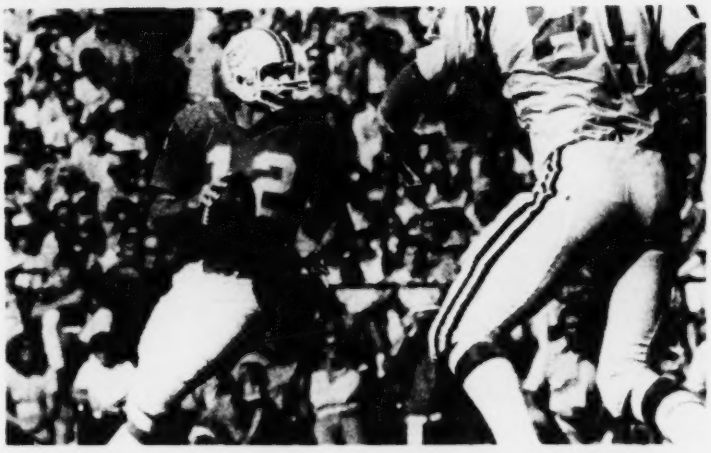
4. Using a help wanted ad in the newspaper, that lists salary in hourly wages, direct students to find the following, (a) the daily wages, (b) the weekly wages, (c) the monthly wages, and (d) the annual wages.

STUDENT ACTIVITY SHEET

Solving Real-world Problems by Addition and Subtraction

Directions:

Refer to the article at the right to solve each of the following problems. You are to estimate an answer prior to actually doing the computation. If your estimation and computation are both correct the two amounts should be close. If not, go back and check both.



Miami Dolphins' Bob Griese, reportedly the highest-paid quarterback in NFL - where quarterbacks, on average, are highest-paid players

The average player in the National Football League earns $78,657 a year. So declares a recent report from the NFL Management Council, which says quarterbacks and defensive linemen are the highest paid, respectively averaging $131,206 and $85,683.

Running backs average $83,496; offensive linemen $74,596; line-backers $70,753; defensive backs $68,753; kickers $60,861.

If pro football is your bag, bear these figures in mind.

PROBLEMS	ESTIMATION	ACTUAL
How much more does a quarterback average compared to the average NFL player?		
How much more does a defensive lineman average compared to the average NFL player?		
Together, how much does an average quarterback and defensive lineman make?		
How much more does a running back average compared to an offensive lineman?		
How much below the average NFL player does the kicker make?		
How much do the following players average in a year: the kicker, a linebacker, and a defensive back?		
How much more does a quarterback average compared to the kicker?		
What would be the average salary for a quarterback, a kicker and a linebacker?		

Grade 8
Minimum Performance Standard Q
Skill #115

Standard Q

The student will solve real-world problems involving whole numbers.

Skill #115

Translate a one-step real-world problem into the appropriate number sentence.

Materials Needed

Newspapers
Student activity sheet Q-115
Scissors
Glue
Index cards

Newspaper Activities for Skill Reinforcement

1. Using the classified section of the newspaper, find a listing for an office manager. If the salary is yearly, write the appropriate number sentence to find the weekly salary. If the salary is weekly, write the appropriate number sentence to find the yearly salary.

2. Repeat the above activity for three other jobs of the student's choice.

3. Have students create their own math problems using student activity sheet Q-115, Grade 8.

STUDENT ACTIVITY SHEET

Creating Math Problems

Directions:

Search through the newspaper and find 5 articles dealing with math and cut them out. Paste each article onto an index card and write out one or more problems from the information in the article. Look at the example below. Solve the problems on the back of the index card and show how to work the problem. At the end of class when everyone is finished with this activity, students may either exchange problems or the teacher can read problems for the class to try.

Price of Sunday paper increases

The price of the Sunday Sentinel Star rises from 50 cents to 75 cents effective today.

This will raise home-delivery rates to all subscribers from $6 to $7 for every four weeks. The newsstand price for the daily Sentinel Star will remain at 25 cents.

The Sunday increase, the first for theSentinel Star since June 1975, is necessary to partially offset steady increases in the cost of newsprint, which has risen from $260 per ton in June 1975 to $426 per ton in January of this year.

The Sentinel Star is now publishing the largest Sunday editions in its history, using about 261 tons of news print each Sunday.

SAMPLE PROBLEMS:

1. The newspaper price increased how much?

   _____

2. What percent increase is this?

   _____

3. What is the difference in the price of a ton of newsprint today compared to June 1975?

   _____

4. How many months has it been since the last increase in price of the Sunday Sentinel Star?

   _____

5. What is the percent of increase of newsprint price?

   _____

6. Approximately what is the cost of newsprint that is needed to publish the Sentinel Star Sunday edition?

   _____

Follow-up Activity:

Additional problem cards can be made at home for extra credit. Also a bulletin board display could be made of the problems created by the class.

Grade 8
Minimum Performance Standard R
Skill #118, 119

Standard R

The student will solve real-world problems involving fractions, decimals, and percents.

Skill #118

Solve real-world problems involving multiplication of a proper fraction and a proper fraction or a whole number.

Skill #119

Solve real-world problems involving additon and subtraction of decimals.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Using the stock market listings in the newspaper, have students pick ten different stocks that have fractional changes in the last column. Ask students to assume that they have 50 shares of each of these stocks and determine the amount of money they would have gained or lost for each stock, today.

2. Use the food section of the newspaper to complete the following: Plan a party for your class. You have $35.00 to spend. List all of the items you plan to buy and the prices for those items.

3. For an up-coming school dance you will need new clothes, find the items you would like to purchase in the advertisements in the newspaper. Total these items and find how much will you be able to buy if you have a budget of $50.00? Can you buy all of the things you want and still have money leftover to go to the movies?

Grade 8
Minimum Performance Standard S
Skill #128, 129

Standard S

The student will solve money problems.

Skill #128

Solve real-world problems involving purchases with change from a twenty dollar bill.

Skill #129

Solve real-world problems involving comparison shopping for purchases less than ten dollars.

Materials Needed

Newspapers
Student activity sheet S-129, Grade 8

Newspaper Activities for Skill Reinforcement

1. Using the student activity sheets, have students determine the best buy from two or more advertisements for the same item from different grocery stores.

2. Have students find advertisements in which items are priced per pound. Ask them to compute the price of a half pound, a quarter pound, and the price per ounce, and then compare prices.

3. Some theaters have different admission prices for different times and days of the week. Use the entertainment section of the newspaper and determine the best time to go to a show at each movie house. How much could you save?

4. Direct students to plan a picnic for ten friends by making food purchases from the newspaper. They have $20.00 to spend. Students can compete to see who can plan the least expensive picnic.

STUDENT ACTIVITY SHEET

Comparison Shopping

Directions:

In the problems below, determine the unit price of each and then decide on the best buy. Put your answers in the spaces provided below. Now find examples of your own and repeat the activity.

_____
UNIT PRICE

_____
UNIT PRICE

_____
BEST BUY

_____
UNIT PRICE

_____
UNIT PRICE

_____
BEST BUY

Grade 8
Minimum Performance Standard T
Skill #135

Standard T

The student will solve measurement problems.

Skill #135

Determine the elapsed time between two events stated in days, months, or years without regrouping.

Materisls Needed

Newspapers
Student activity sheet T-135

Newspaper Activities for Skill Reinforcement

1. Have students clip six engagement announcements from the newspaper and use these clippings to determine the number of days, weeks and months until the wedding.

2. Ask students to select ten different movie ads from the newspaper and determine the elapsed time for each showing.

3. Using the horoscope column in the newspaper, have students complete student activity sheet T-135 by determining the number of days in each Astrological cycle.

STUDENT ACTIVITY SHEET

Elapsed Time

Directions:

Clip out the horoscopes in today's newspaper and paste below. Fill in the chart using a calendar, if needed, to determine the number of days in each Astrological cycle. Change each into weeks, also.

	DAYS	WEEKS		DAYS	WEEKS
ARIES			LIBRA		
TAURUS			SCORPIO		
GEMINI			SAGITTARIUS		
CANCER			CAPRICORN		
LEO			AQUARIUS		
VIRGO			PISCES		

Grade 8
Minimum Performance Standard T
Skill #136, 137

Standard T

The student will solve measurement problems.

Skill #136

Determine the perimeter of triangles, squares, and rectangles with whole number dimensions.

Skill #137

Solve linear measurement problems with centimeters, meters, inches, feet, or yards, using addition or subtraction, with no conversion.

Materials Needed

Newspapers
Rulers
Meter sticks

Newspaper Activities for Skill Reinforcement

1. Measure the front page of the newspaper to find the length and width in both customary and metric units. Direct students to find the perimeter.

2. Have students use fence advertisements and determine the cost of fencing a region 260 yards in perimeter.

3. Direct students to find an ad for drapery materials which lists prices. Assume four panels of 45-inch material will be needed to make curtains for a window. Determine how much material will be needed. Use the least expensive materials advertised and determine the cost, including tax. Then, determine the cost using the most expensive materials, including tax. Compare the prices.

Grade 8
Minimum Performance Standard U
Skill #146

Standard U

The student will interpret graphs, tables and maps.

Skill #146

Read and determine relationships described by bar graphs or pictographs.

Materials Needed

Newspapers

Newspaper Activities for Skill Reinforcement

1. Using the entire newspaper, have students find all of the bar graphs and pictographs used and determine the relationships and interpret the data represented.

2. Using the weather section of the newspaper, construct a bar graph for the daily high temperature in your area and construct a separate bar graph for the daily high temperature in New York. Record the temperatures for a 4 week period on the graphs. Using the bar graphs ask students if they can determine the season of the year from the graphs?

Grade 8
Minimum Performance Standard U
Skill #148

Standard U

The student will interpret graphs, tables and maps.

Skill #148

Using a table of metric measures, convert within the metric system using the following units: mm, cm, m, km, ml, l, mg, g, and kg.

Materials Needed

Newspapers
Table of metric measures
Meter Stick

Newspaper Activities for Skill Reinforcement

1. Have students measure six or more photographs from the newspaper in centimeters. Then, convert this measurement to meters, decimeters, and millimeters.

2. Measure each of the following in centimeters and then convert each of the measurements to meters, decimeters, and millimeters:

   a. the length of a column
   b. the width of a column
   c. the length of a page
   d. the width of a page
   e. various ads throughout the paper
   f. the height of the largest size type
   g. the height of the smallest size type

Sources

Math Activities for Child Development - Enoch Dumas

Becoming Familiar with the Classifieds

Secondary Idea Starters for NIEC - Sentinel Star

NIE Newsletter - "Math Lessons for the Future" by Dave Schaeffer - Springhouse Jr. High - Call Chronicle Ed. Diane MacLean: Canadian Daily Newspaper Publishers Assoc. 250 Bloor St. East Toronto, Ontario M4W 1E7

Living Textbook Program - The Cleveland Plain Dealer

Math Learning Station Workshop - Gannett Rochester Newspaper, Rochester, NY 14614

Mathematics: NIE, The Bradenton Herald

Teaching Basic Math Skills with the Newspaper: Secondary Level

Orange County Comp. Math, Grade 10 Materials Kit

400 Group Games and Activities for Teaching Math by DeRoche and Bogenchild

Orlando Sentinel

Pine Hills Sun

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